



Typical Properties of

Techtron® HPV

PPS with Solid Fiber Internal Lubricant

Process: Extruded

Property	Test Method	Unit	Value
Specific Gravity	D792	--	1.43
Tensile Strength	D638	psi	10,900
Tensile Modulus	D638	psi	540,000
Elongation	D638	%	5
Flexural Strength	D790	psi	10,500
Flexural Modulus	D790	psi	535,000
Compressive Strength	D695	psi	15,500
Compressive Modulus	D695	psi	342,000
Hardness, Rockwell	D785	--	M84
Hardness Durometer	--	--	N / A
Izod Impact (notched)	D256	ft. lb of notch	1.4
Coeff. of Friction (Dynamic)	--	dry v.s steel	0.2
Coeff. of Linear Therm. Expan.	E831/ D696	in./in./°F	3.3 x 10 ⁻⁵
Continuous Use Temperature	--	°F	430
Heat Deflection Temperature	D648	°F	240
Glass Transition Temperature	D3418	°F	230
Melting Point	D3418	°F	540
Thermal Conductivity	E1530-11	BTU in/hr ft ² °F	2.1
Dielectric Strength	D149	Volts/mil	500
Surface Resistivity	EOS/ESD 511.11	ohm/square	>10 ¹³
Flammability	UL94	--	V-0
Water Absorption, 24 hrs.	D570	% by weight	0.01
Water Absorption, Saturation	D570	% by weight	0.09
Limiting PV (4:1 Safety Factor)	--	--	8,750
K-Factor	--	--	62
FDA Compliance	--	--	No

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.